



SEQUENCE LISTING

<110> CO, MAN SUNG

MAXIMILLIANO, VASQUEZ

<120> ANTITHROMBOTIC AGENT AND HUMANIZED ANTI-VON WILLEBRAND FACTOR MONOCLONAL ANTIBODY

<130> 202617US0PCT

<140> 09/763,129

<141> 2001-05-16

<150> PCT/US99/16724

<151> 1999-08-19

<150> 09/136,315

<151> 1998-08-19

<160> 8

<170> PatentIn version 3.1

<210> 1

<211> 417

<212> DNA

<213> Mus musculus

<220>

<221> CDS

<222> (1)..(417)

<223>

<400> 1

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1				5					10					15		
cag	tgt	gag	gtg	aaa	ctt	ctc	gag	tct	gga	ggt	ggc	ctg	gtg	cag	act	96
Gln	Cys	Glu	Val	Lys	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Thr	
			20					25					30			
gga	gga	tcc	ctg	aaa	ctc	tcc	tgt	gca	gcc	tca	gga	ttc	gat	ttt	agt	144
Gly	Gly	Ser	Leu	Lys	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Asp	Phe	Ser	
			35				40					45				
aga	ttc	tgg	atg	agt	tgg	gtc	cgg	cag	gct	cca	ggg	aaa	ggg	cta	gaa	192
Arg	Phe	Trp	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	
			50			55					60					
tgg	att	gga	gaa	gtt	aat	cca	gat	aac	aat	acg	atg	aac	tat	acg	cca	240
Trp	Ile	Gly	Glu	Val	Asn	Pro	Asp	Asn	Asn	Thr	Met	Asn	Tyr	Thr	Pro	
65					70					75					80	
tct	cta	aag	gat	aaa	ttc	atc	atc	tcc	aga	gac	aac	gcc	aaa	aat	acg	288
Ser	Leu	Lys	Asp	Lys	Phe	Ile	Ile	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Thr	
				85					90					95		
ctg	tac	ctg	caa	atg	agt	caa	gtg	aga	tct	gag	gac	aca	gcc	ctt	tac	336
Leu	Tyr	Leu	Gln	Met	Ser	Gln	Val	Arg	Ser	Glu	Asp	Thr	Ala	Leu	Tyr	
			100					105					110			
tac	tgt	gca	aga	cct	ccc	tac	tat	ggt	agc	tac	ggg	ggg	ttt	gct	tac	384
Tyr	Cys	Ala	Arg	Pro	Pro	Tyr	Tyr	Gly	Ser	Tyr	Gly	Gly	Phe	Ala	Tyr	
			115				120					125				
tgg	ggc	caa	ggg	act	ctg	gtc	tct	gtc	tcg	cca						417
Trp	Gly	Gln	Gly	Thr	Leu	Val	Ser	Val	Ser	Pro						
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<210> 2

<211> 139

<212> PRT

<213> Mus musculus

<400> 2

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Gln Cys Glu Val Lys Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Thr
20 25 30

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Ser
35 40 45

Arg Phe Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
50 55 60

Trp Ile Gly Glu Val Asn Pro Asp Asn Asn Thr Met Asn Tyr Thr Pro
65 70 75 80

Ser Leu Lys Asp Lys Phe Ile Ile Ser Arg Asp Asn Ala Lys Asn Thr
85 90 95

Leu Tyr Leu Gln Met Ser Gln Val Arg Ser Glu Asp Thr Ala Leu Tyr
100 105 110

Tyr Cys Ala Arg Pro Pro Tyr Tyr Gly Ser Tyr Gly Gly Phe Ala Tyr
115 120 125

Trp Gly Gln Gly Thr Leu Val Ser Val Ser Pro
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<210> 3

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<222> (1)..(381)

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gat gcc aga tgt gac atc cag atg act cag tct cca gcc tcc cta tct	96
Asp Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser	
20 25 30	
gta tct gtg gga gaa act gtc acc atc aca tgt cga gca agt gag aat	144
Val Ser Val Gly Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Glu Asn	
35 40 45	
att tac aat aat tta gct tgg tat cag cag aga cag gga aaa tct cct	192
Ile Tyr Asn Asn Leu Ala Trp Tyr Gln Gln Arg Gln Gly Lys Ser Pro	
50 55 60	
cag ctc ctg gtc tat gct gca aca aac tta gca gat ggt gtg cca tca	240
Gln Leu Leu Val Tyr Ala Ala Thr Asn Leu Ala Asp Gly Val Pro Ser	
65 70 75 80	
agg ttc agt ggc agt gga tca ggc aca cag tat tcc ctc aag atc gac	288
Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asp	
85 90 95	
agc ctg cag tct gaa gat ttt ggg agt tat tac tgt caa cat ttg tgg	336
Ser Leu Gln Ser Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His Leu Trp	
100 105 110	
act tct ccg tac acg ttc gga ggg ggg acc aag ctg gaa ata aaa	381
Thr Ser Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys	
115 120 125	

<210> 4

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<212> PRT

<213> Mus musculus

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Met Ser Val Pro Thr Gln Val Leu Gly Leu Leu Leu Trp Leu Thr
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Asp Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser
20 25 30

Val Ser Val Gly Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Glu Asn
35 40 45

Ile Tyr Asn Asn Leu Ala Trp Tyr Gln Gln Arg Gln Gly Lys Ser Pro
50 55 60

Gln Leu Leu Val Tyr Ala Ala Thr Asn Leu Ala Asp Gly Val Pro Ser
65 70 75 80

Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asp
85 90 95

Ser Leu Gln Ser Glu Asp Phe Gly Ser Tyr Tyr Cys Gln His Leu Trp
100 105 110

Thr Ser Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
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<210> 5

<211> 417

<212> DNA

<213> Artificial Sequence

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<223> Synthetic DNA

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<221> CDS

<222> (1)..(417)

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Met Asp Phe Gly Leu Ile Phe Phe Ile Val Ala Leu Leu Lys Gly Val	
1 5 10 15	
cag tgt gag gtg caa ctt gtc gag tct gga ggt gga cta gtg cag cct	96
Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro	
20 25 30	
gga gga tca ctg aga ctc tcc tgt gca gcc tca gga ttc gat ttt agt	144
Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Ser	
35 40 45	
aga ttc tgg atg agt tgg gtc cgg cag gct cca ggg aaa ggg ctc gag	192
Arg Phe Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu	
50 55 60	
tgg att gga gaa gtt aat cca gat aac aat acg atg aac tat acg cca	240
Trp Ile Gly Glu Val Asn Pro Asp Asn Asn Thr Met Asn Tyr Thr Pro	
65 70 75 80	
tct cta aag gat aaa ttc acc atc tcc aga gac aac gcc aaa aat acg	288
Ser Leu Lys Asp Lys Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr	
85 90 95	
ctg tac ctg caa atg aac tca ttg aga gct gag gac acg gcc gtt tac	336
Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr	
100 105 110	
tac tgt gca aga cct ccc tac tat ggt agc tac ggg ggg ttt gct tac	384
Tyr Cys Ala Arg Pro Pro Tyr Tyr Gly Ser Tyr Gly Gly Phe Ala Tyr	
115 120 125	
tgg ggc caa ggg act ctg gtc acc gtc tcc tca	417
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser	
130 135	

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<212> PRT

<213> Artificial Sequence

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<223> Synthetic Peptide

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Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro
20 25 30

Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Ser
35 40 45

Arg Phe Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu
50 55 60

Trp Ile Gly Glu Val Asn Pro Asp Asn Asn Thr Met Asn Tyr Thr Pro
65 70 75 80

Ser Leu Lys Asp Lys Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr
85 90 95

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
100 105 110

Tyr Cys Ala Arg Pro Pro Tyr Tyr Gly Ser Tyr Gly Gly Phe Ala Tyr
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
130 135

<210> 7

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<212> DNA

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<222> (1)..(381)

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gat gcc aga tgt gac atc cag atg act cag tct cca tcc tcc cta tct 96
Asp Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser
20 25 30
gca tct gtg gga gac agg gtc acc atc aca tgt cga gca agt gag aat 144
Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Asn
35 40 45
att tac aat aat tta gct tgg tat cag cag aaa ccg gga aaa gct cct 192
Ile Tyr Asn Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
50 55 60
aag cta cta gtc tat gct gca aca aac tta gca gat ggt gtg cca tca 240
Lys Leu Leu Val Tyr Ala Ala Thr Asn Leu Ala Asp Gly Val Pro Ser
65 70 75 80
agg ttc agt ggc agt gga tca ggc aca cag tat acc ctc acg atc agc 288
Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Tyr Thr Leu Thr Ile Ser
85 90 95
agc ctc cag cct gag gat ttt gcg act tat tac tgt caa cat ttg tgg 336
Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Leu Trp
100 105 110
act tct ccg tac acg ttc gga ggg ggg acc aag gtg gaa ata aaa 381
Thr Ser Pro Tyr Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
115 120 125

<210> 8

<211> 127

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

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Met Ser Val Pro Thr Gln Val Leu Gly Leu Leu Leu Trp Leu Thr
1 5 10 15

Asp Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser
20 25 30

Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Asn
35 40 45

Ile Tyr Asn Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro
50 55 60

Lys Leu Leu Val Tyr Ala Ala Thr Asn Leu Ala Asp Gly Val Pro Ser
65 70 75 80

Arg Phe Ser Gly Ser Gly Ser Gly Thr Gln Tyr Thr Leu Thr Ile Ser
85 90 95

Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln His Leu Trp
100 105 110

Thr Ser Pro Tyr Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
115 120 125